CLAIMS

- 1. A wax comprising a reaction product of:
 - (a) a C₆-C₁₂ linear dicarboxylic acid; and
 - (b) a diamine of formula H₂N(CH₂)_nNH₂,

wherein n is an integer from 2 to 6, and a molar ratio of said C₆-C₁₂ linear dicarboxylic acid to said diamine is from 0.97 to 1.06.

- 2. The wax of claim 1 in which said C_{6} - C_{12} linear dicarboxylic acid is a C_{8} - C_{10} linear dicarboxylic acid, and n is 2 or 3.
- 3. The wax of claim 2 in which a molar ratio of said C_8 - C_{10} linear dicarboxylic acid to said diamine is from 0.99 to 1.03.
- 4. The wax of claim 3 in which said C₈·C₁₀ linear dicarboxylic acid is sebacic acid, and said diamine is ethylene diamine.
- 5. The wax of claim 4 in which a molar ratio of said C₈-C₁₀ linear dicarboxylic acid to said diamine is from 1.00 to 1.02.
- 6. The wax of claim 1 in which a molar ratio of said C₆-C₁₂ linear dicarboxylic acid to said diamine is from 0.99 to 1.03.
- 7. The wax of claim 6 in which said C_{6} - C_{12} linear dicarboxylic acid contains a saturated alkylene group, and said diamine contains a saturated alkylene group; and n is 2 or 3.
- 8. The wax of claim 7 in which a molar ratio of said C₆-C₁₂ linear dicarboxylic acid to said diamine is from 1.00 to 1.02.
- 9. The wax of claim 8 in which said C_6 - C_{12} linear dicarboxylic acid is a C_8 - C_{10} linear dicarboxylic acid.